

Title (en)
NUCLEIC ACID-BINDING CHIPS FOR THE DETECTION OF PHOSPHATE DEFICIENCY CONDITIONS IN THE FRAMEWORK OF BIOPROCESS MONITORING

Title (de)
NUKLEINSÄURE-BINDENDE CHIPS ZUR DETEKTION VON PHOSPHATMANGELZUSTÄNDEN IM RAHMEN DER BIOPROZESSKONTROLLE

Title (fr)
PUCES LIANT L'ACIDE NUCLEIQUE DESTINEES A LA DETECTION D'ETATS DE DEFICIENCE EN PHOSPHATE DANS LE CADRE DE LA COMMANDE DES BIOPROCEDES

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Application
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Abstract (en)
[origin: WO2006069638A1] The invention relates to nucleic acid-binding chips for monitoring bioprocesses, especially for detecting phosphate deficiency conditions. Said chips support probes for at least three of the following 47 genes: yhcR, tatCD, ctaC, gene for a putative acetoin reductase, spoIIA, nasE, pstA, spoIIAA, gene for a hypothetical protein, yhbD, cotE, gene for a conserved hypothetical protein, yurI, spoVID, gene for a putative aromatics-specific dioxygenase, yhbE, gene for a putative benzoate transport protein, pstBB, spoIIAH, gene for a hypothetical protein, spoIIQ, spoIIAG, yvmA, gene for a putative ribonuclease, dhaS, yrbE, gene for a putative decarboxylase/dehydratase, htpG, yfkH, spoIIAB, spoIIAF, alsD, gdh, yfkN, pstC, yfmQ, pstBA, dhaS homologue, gene for a putative phosphatase, phy, cypX, alsS, phoD, pstS, phoB, yvnA, yvmC, the total number of phosphate metabolism-specific different probes on the nucleic acid-binding chips not exceeding 100. The invention further relates to the use of corresponding gene probes, particularly on such chips, as well as corresponding methods and possible uses.

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